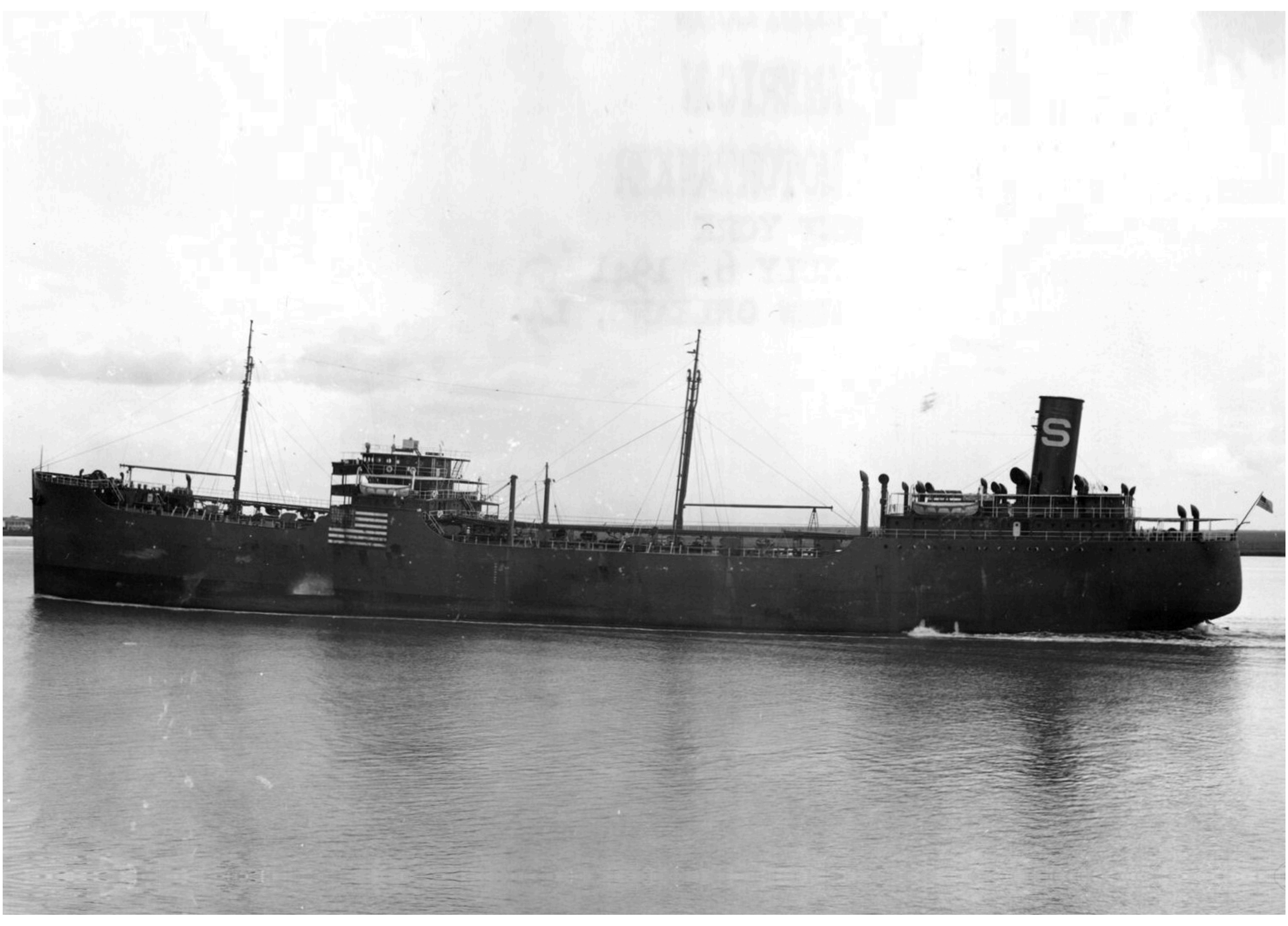
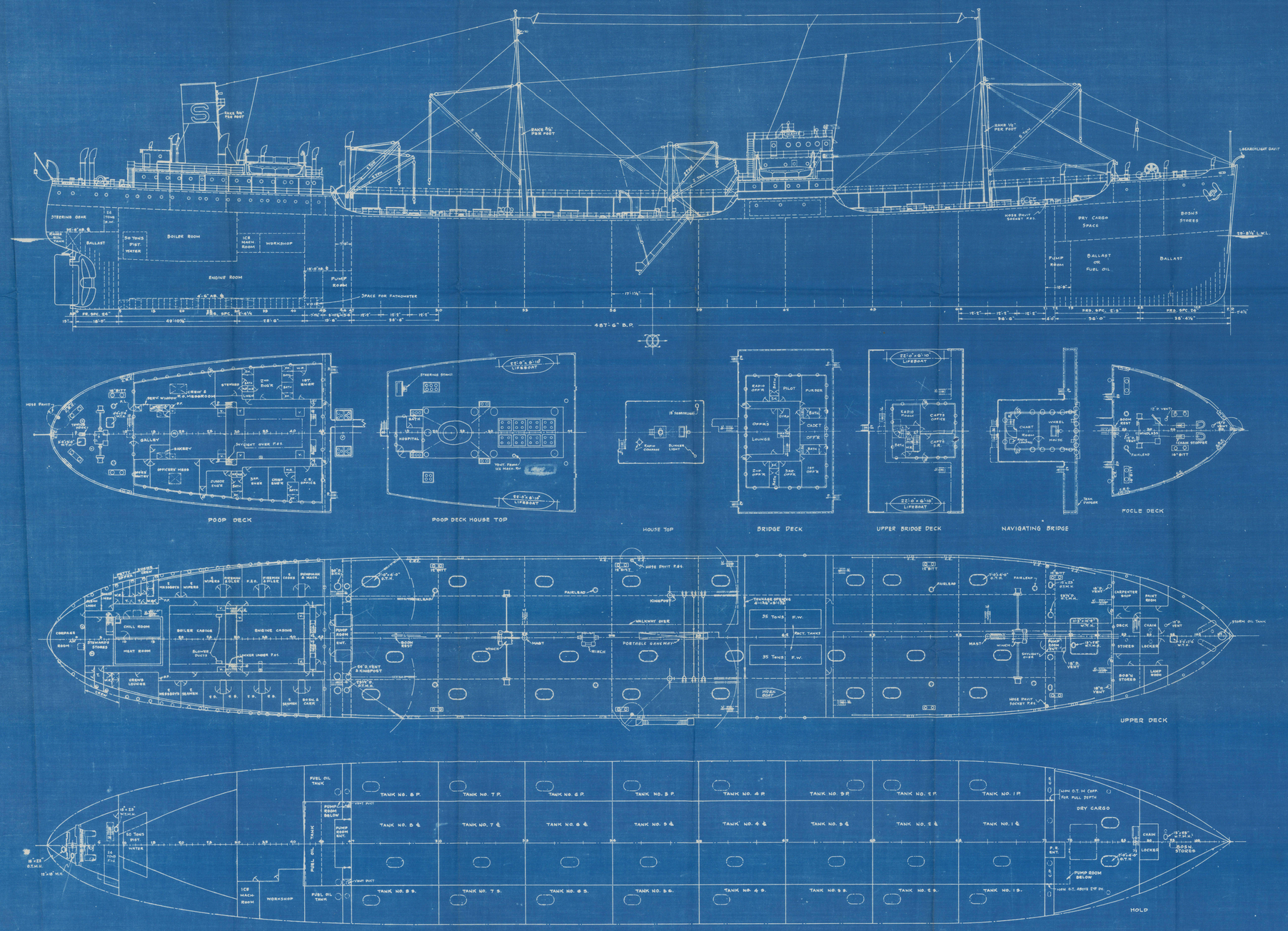




DIMENSIONS	
LENGTH B.P.	487'-6"
LENGTH O.A	ABT. 501'-7¾"
BEAM MLD.	68'-0"
DEPTH MLD.	37'-0"
DRAFT DESIGNED	29'-8½"
CAPACITY, CARGO	133000 BBLS.
DESIGNED SPEED	13 KNOTS
EST. DEADWEIGHT	16100 TONS

4333	
4332	
HULL NO.	NAME

BETHLEHEM SHIPBUILDING CORP. LTD.
FORE RIVER PLANT QUINCY, MASS.
DESIGN DEPT.

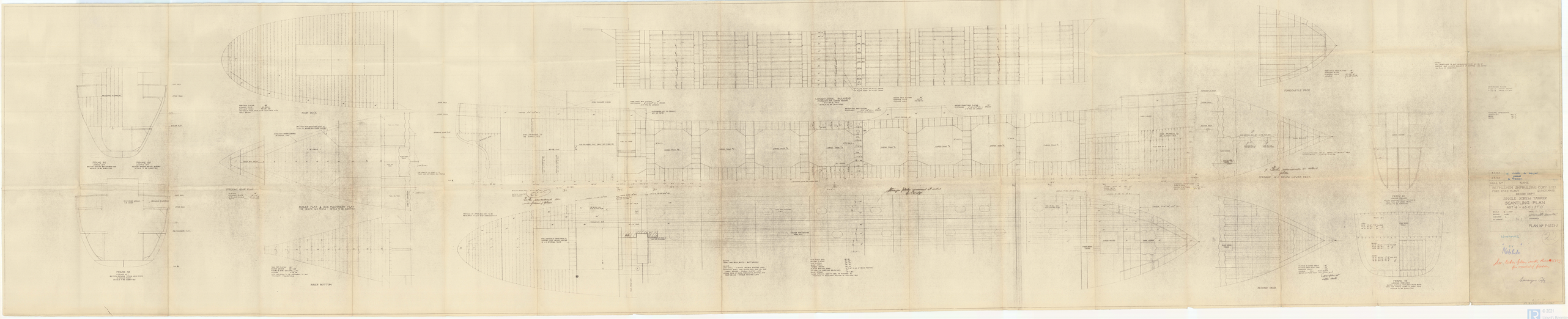
GENERAL ARRANGEMENT
SINGLE SCREW TANKER
487'-6" x 68'-0" x 37'-0"

SCALE 1/16" = 1'-0"
DATE 31ST MAY, 1938
DRAWN S.P. INEL
APPROVED M.B. Hunter
CHECKED
IN CHARGE H.T.K.
APPROVED

JOB NO. PLAN NO. P-1221-G

APPROVED BY SOC. VAC. OIL CO. INC. 9TH. SEPT. 1938

H. Mobilfuel
Baltimore Opt. to 6788
42
As Built



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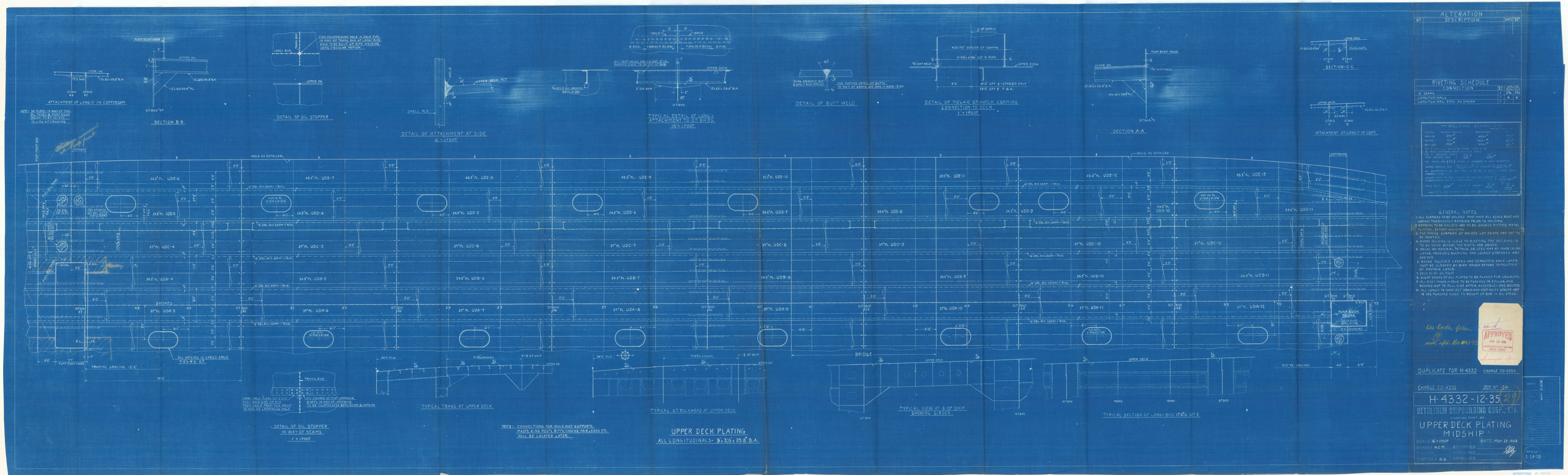
Foundation



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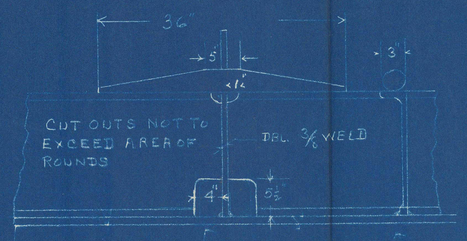
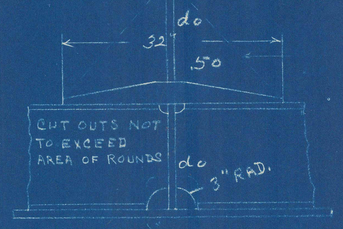
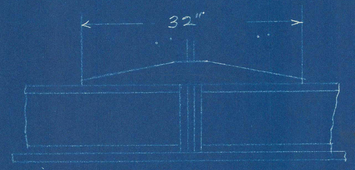


BOTTOM LONG. BHD CONNECTION



12"#15" SIDE LONG. BHD CONNECTION

WHEN MORE THAN TWO HATCHES FITTED ABREAST
DK. SPECIALLY STRENGTHENED IN WAY OF MIDDLE HATCH



BHD CONNECTION FOR SIDE AND DK. LONG UNDER 12"

NOTES

ALL WELDING TO MEET THE REQUIRMENTS OF THE AMERICAN BU. OF SHIPPING AND OF LLOYDS REGISTER.

2"x1" DRAIN HOLES SPACED ABOUT 18" C-C AT HEEL OF ALL LONG. AND BULKHEAD STIFFENERS OR WEBS TO HAVE DRAIN HOLES CUT IN FAYING EDGES

LIGHTENING HOLES TO BE KEPT AT LEAST 10" CLEAR OF NOTCHES FOR LONGLS.

LONGITUDINALS

DK	9 x 3½ x .50" x 23'-8"	
1	10 x 3½ x .40" x 22'-7"	SHEER STRAKE .37"-.50" INCREASED THICK AT FORE END POOP & BDG ENDS
2	10 x 3½ x .46" x 24'-8"	
3	10 x 3½ x .40" x 22'-4"	STRAKE BELOW .32"-.37"
4	9 x 4 x .45" x 21'-3"	
5	9 x 4 x .50" x 22'-9"	
6	12 x 3½ x .45" x 28'	
7	12 x 3½ x .45" x 25'-11"	
8	12 x 3½ x .50" x 30'	RIVET SEAMS IN NEUTRAL (3½ DIA. OR TREBLE R.
9	15 x 3⅜ x .40" x 31'	
10	15 x 3½ x .40" x 31'	
11	15 x 3⅜ x .40" x 37'	
12	15 x 3½ x .51" x 37'	SIDE PLATING .65"-.48"
13	15 x 3½ x .52" x 37'	
14	18 x 4 x .50" x 42'-8"	BILGE STRAKES .75"-.48"
15-26	18 x 4 x .60" x 43'-7"	

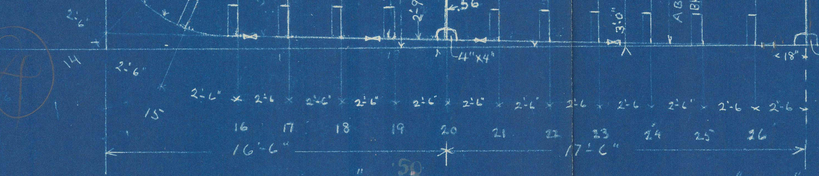
ALL ANGLES CUT FROM [
ALL ROUNDS AT BHDS 3"

SHELL AND DECK BUTTS, BUTT WELDED EX
DETAILS OF ALL WELDING TO BE SHOWN ON WORKING PLANS

ALL SHELL CLINKER BELOW LONG. 12

SIDE PLATING IN AND OUT DOWN TO LONG. 12

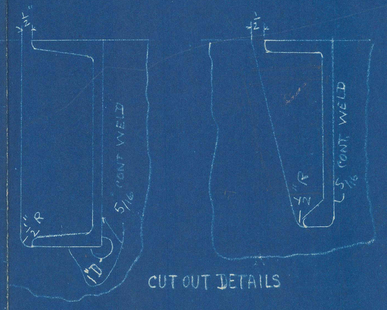
SHEER STRAKE IN-SIDE



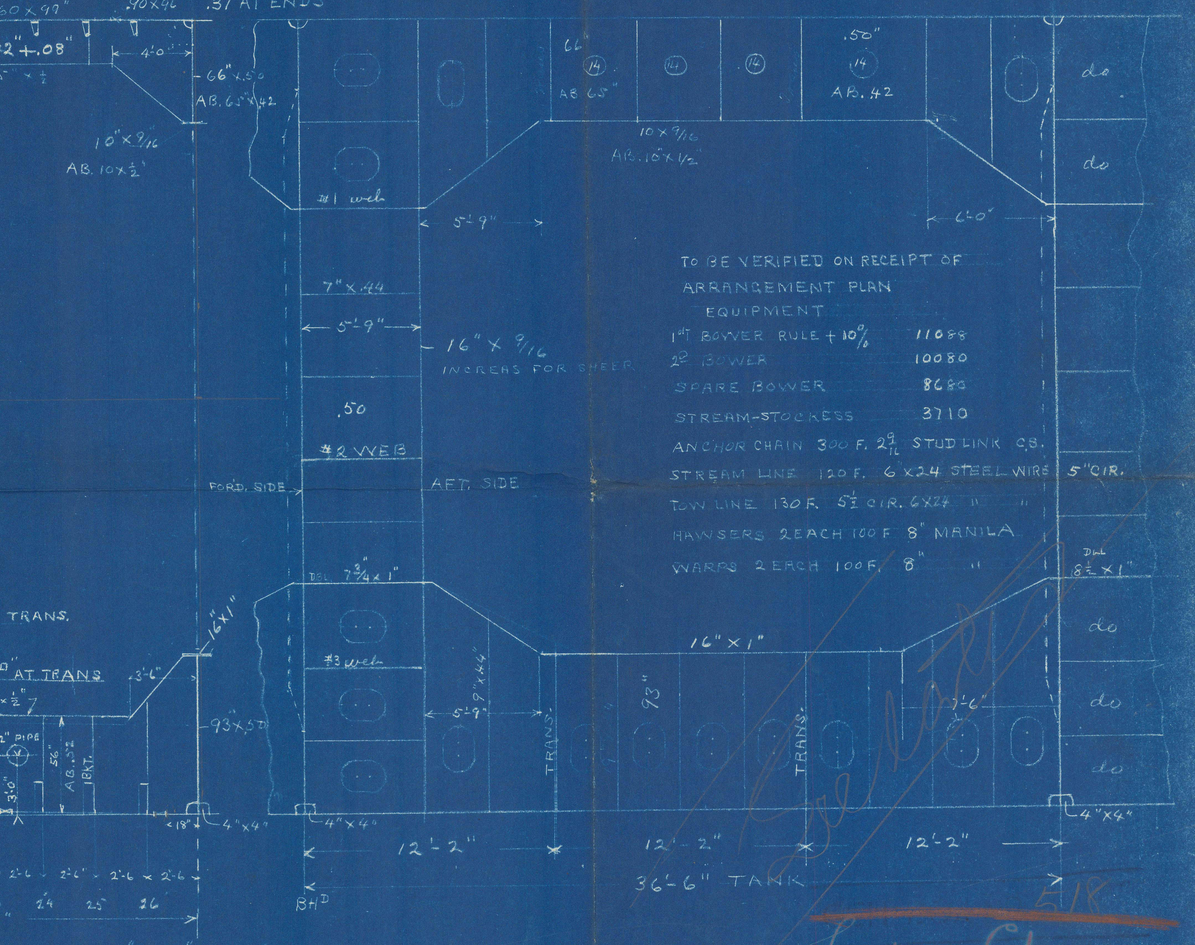
BOTTOM PLATING .76"-.48" WITH STATUTORY THICKNESS AJACENT PROPELLER POST

TRREE STRAKES NEXT TO KEEL TO MAINTAIN .76" THICKNESS TO STATUTORY POSITION OF COLLISION BHD. .78" IN WAY OF TRANSVERS FRAMING. .57" MIN. SHELL THICKNESS FORD. BELOW LOAD WATER LINE.

FLAT KEEL .86" x 52" THROUGH OUT



CUT OUT DETAILS



TO BE VERIFIED ON RECEIPT OF ARRANGEMENT PLAN

EQUIPMENT

1ST BOWER RULE +10%	11088
2D BOWER	10080
SPARE BOWER	8680
STREAM-STOCKLESS	3710

ANCHOR CHAIN 300 F. 2 9/16" STUD LINK C.S.
STREAM LINE 120 F. 6x24 STEEL WIRE 5" CIR.
TOW LINE 130 F. 5½ CIR. 6x24 " "
HAWSERS 2 EACH 100 F. 8" MANILA
WARPS 2 EACH 100 F. 8" "

DETAIL OF BUTT WELDS

DECK AND SHELL PLATING

KEEL & BOTTOM SHELL WELDED FROM TOP.
DECK PLATING WELDED FROM TOP.

INSIDE STRAKES AT SIDES WELDED FROM IN SIDE, OR INDIVIDUALLY FROM OUTSIDE.

OUTSIDE STRAKES AT SIDES WELDED FROM OUTSIDE

V IN KEEL & BOTTOM REVERSED IN WAY OF SEAMS. WELD NOT TO PENETRATE AJACENT STRAKE, REMOVABLE COPPER INCERT MAY BE EMPLOYED AS NECCESSARY

SLAG GROOVED OUT ON OPPOSITE SIDE AND SINGLE BEAD APPLIED

Butt welds to be specially considered with working plans

BETHLEHEM SHIPBUILDING CORP. LTD
SINGLE SCREW TANKER
487'-6" x 68'-0" x 37'-0"
FOR
SOCONY-VACUUM OIL COMPANY INC.

MIDSHIP SECTION

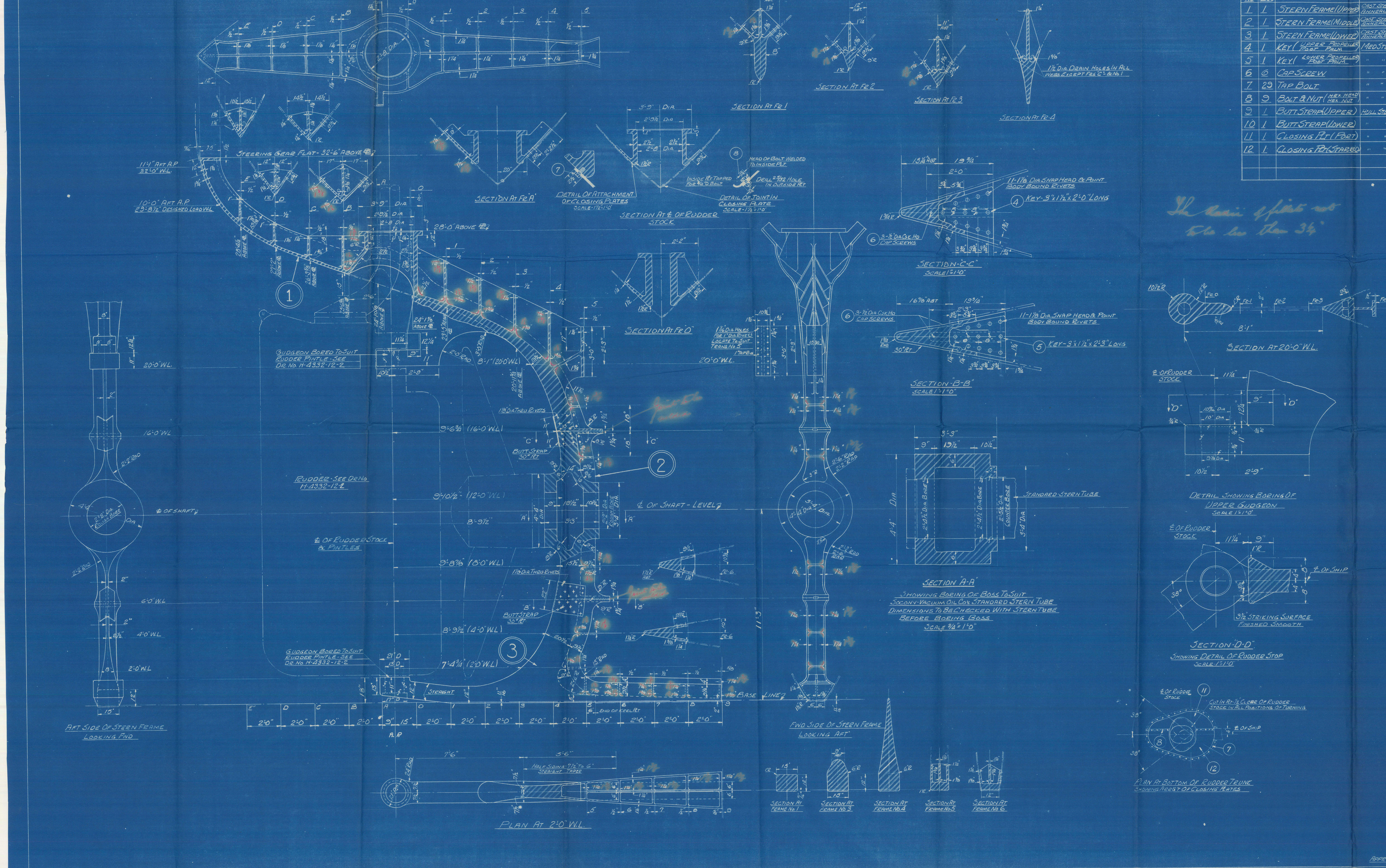
SCALE ¼" = 1 FOOT 4-FEB-38

P-1221-A

4332 "MOBILFUEL"
4333 "MOBILOIL"

APPROVED
FEB 28 1938
BUREAU OF SHIPPING
NEW YORK

AIR
London Office



Bill Of Material

Item No	No. Req'd	Name	Material	Patt. No.	Remarks	Req No	Req No
1	1	Stern Frame (Upper)	Cast Steel Annealed	49524			
2	1	Stern Frame (Middle)	Cast Steel Annealed	49525			
3	1	Stern Frame (Lower)	Cast Steel Annealed	49526			
4	1	Key (Upper Propeller Post Palm)	Med Steel		3" x 1½" x 2'-0" Long		
5	1	Key (Lower Propeller Post Palm)	" "		3" x 1½" x 2'-3" Long		
6	6	Cap Screw	" "		½" Dia. Csk Hd - 2½" Lg O.A		
7	29	Tap Bolt	" "		¾" Dia - Hex Hd. - 2" Lg. U.H.		
8	9	Bolt & Nut (Hex. Head Hex. Nut)	" "		1¾" Lg Under Hd.		
9	1	Butt Strap (Upper)	Hull Steel		45" x 25" x 30# Plt.		
10	1	Butt Strap (Lower)	" "		54" x 25" x 30# Plt.		
11	1	Closing Plt (Port)	" "		60" x 30" x 15.5# Plt		
12	1	Closing Plt (Starbd)	" "		60" x 38" x 15.5# Plt		

Alterations

No	Description	Date	

General Notes

1. Stern Frame To Comply With Lloyd's Register Of Shipping & American Bureau Of Shipping Requirements & Test
2. Moldloft To Furnish Pattern Shop With All Necessary Templates
3. All Rivet Holes To Be Laid Off & Drilled By Yard
4. All Tapers In Vertical Webs To Be On Aft Side
5. All Tapers In Horizontal Webs To Be On Lower Side
6. Floors To Be Efficiently Riveted To Athwartship Webs
7. Riveting To Be In Accordance With Classification Societies Rules

S.S. "Mobilube"
Balt. Rept. No. 6825

Approved
May 10 1938
Lloyd's Register of Shipping
New York
Surveyors Copy

The Electric welding must be done with an approved electrode, and the requirements of the Society's RULES FOR THE APPLICATION OF ELECTRIC ARC WELDING FOR SHIP CONSTRUCTION must be carried out.

Approved - American Bureau Of Shipping - May 10 1938

Duplicate For H-4333 Charge-ED-4333

Charge-ED-4332 Job No. 121

H-4332-12-1 (53)

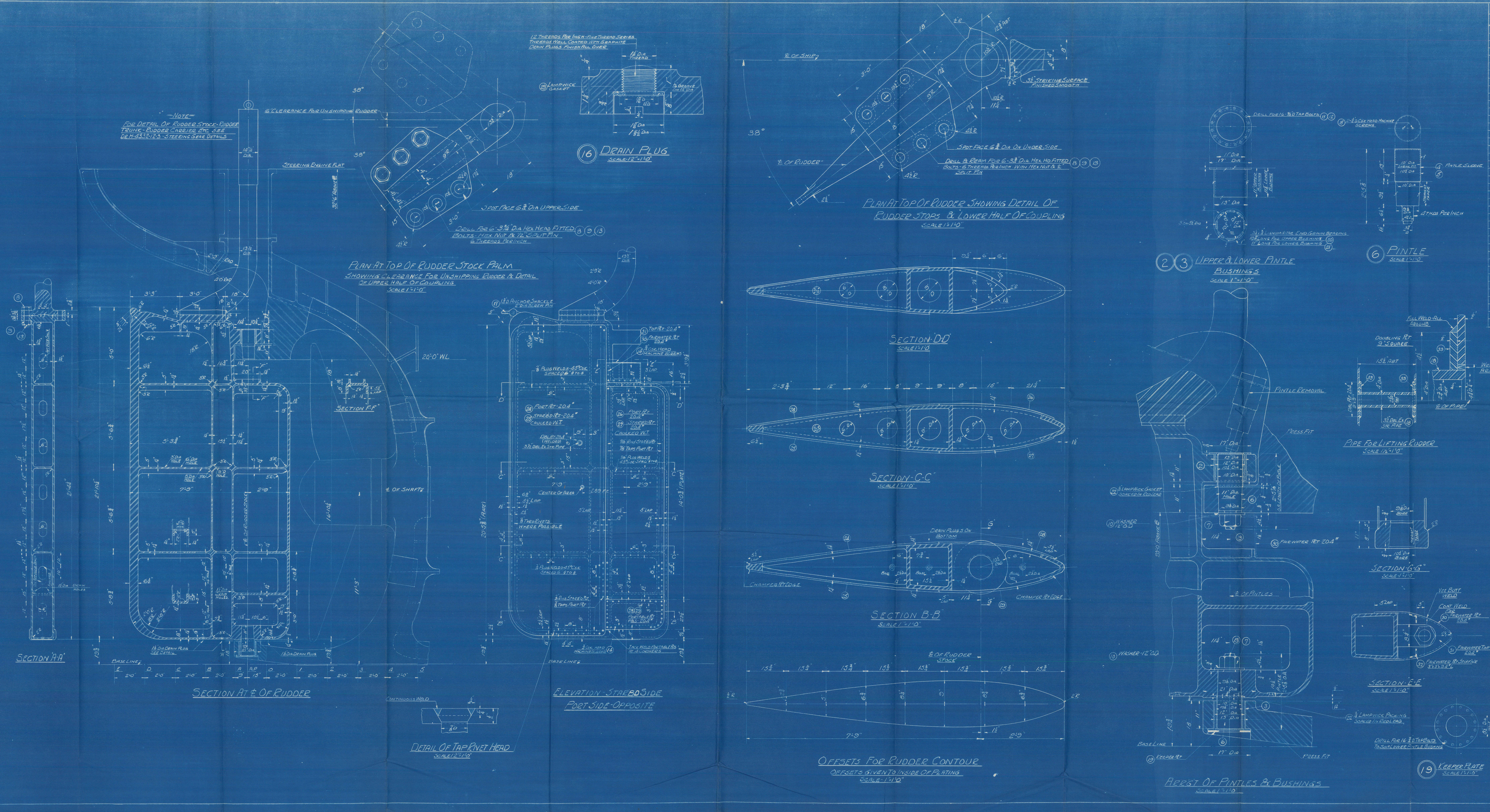
Bethlehem Shipbuilding Corp., Ltd.
Sparrows Point, Md.

Stern Frame

Scale ½" = 1'-0" & As Noted | Date May 3rd '38
Drawn R.A. Stewart | Approved
Traced Do | Approved
Checked | Approved

Group 2

Lloyd's Register Foundation



Bill Of Material

Item No	No. Req'd	Name	Material	Patt. No.	Remarks	Req'n No	Req'n No
1	1	Rudder Frame	Cast Steel Annealed	49527	Wght Abt - 16,500 #		
2	1	Upper Pintle Bushing	Comp. "G"	49528	11" Long		
3	1	Lower Pintle Bushing	Comp. "G"	49528	11 5/8" Long		
4	1	Upper Pintle Sleeve	Comp "G"	49529			
5	1	Lower Pintle Sleeve	Comp "G"	49529			
6	2	Pintle	Med. Steel				
7	2	Pintle Nut	" "		4 1/2" D. Std. Hex - 4 Thds Per Inch		
8	6	Coupling Bolt - 3 3/4" D Hex. Hd	" "		13" Lg. U.H. 6 Thds Per Inch		
9	6	Coupling Bolt Nut	" "		3 3/4" Std. Hex. - 6 Thds Per Inch		
10	2	Pintle Washer	" "		12" O.D. - 3/4" Thick		
11	32	Tap Bolts	Brass		3/4" Hex. Hd. - 2" Long U.H.		
12	32	Lock Washers	Bronze		1/8" Thick For Item 11		
13	8	Split Pin	Brass		1/2" Dia. - 5 1/2" Long		
14	90	3/4" Machine Screw	Brass		C'sk Head 1 1/4" Lg. O.A. (10 Thds Per In.)		
15	4	1/2" Machine Screw	Brass		C'sk Head - 1" Lg. O.A. (13 Thds Per In.)		
16	3	Drain Plug	Comp "G"		Made From 1 3/4" Round Bar		
17	1	Anchor Shackle - 1 3/4" D	Steel (Galv.)		T. Laughlin - Catalogue 100 Page 6 Fig-6-209		
18	1	Pipe 3 1/2" D. Dbl. Ex. Strong	Steel		18" Long		
19	1	Keeper Plate	Brass		17" O.D. 1/2" Thick		
20	8	Upper Pintle Bearing	Lignum Vitae		3/4" x 3 1/4" x 10 3/8" Lg. - Rad To Suit Pintle		
21	8	Lower Pintle Bearing	" "		3/4" x 3 1/4" x 11" Lg. - Rad To Suit Pintle		
22	2	Gasket - 1/4" x 1/4"	Lamp Wick		2'-9" Lg. - Soaked In Red Lead		
23	3	Gasket - 1 1/16" O.D. 15/16" I.D. 1/8" Thick	" "		Soaked In Red Lead		
24	1	Rudder Side Plt - Port	Hull Steel		246 1/2" x 78" x 20.4 #		
25	1	Rudder Side Plt. Starb'd	" "		246 1/2" x 78" x 20.4 #		
26	1	Rudder Side Plt - Port	" "		169 1/2" x 78" x 20.4 #		
27	1	Rudder Side Plt. - Starb'd	" "		169 1/2" x 78" x 20.4 #		
28	1	Portable Plt - Port	" "		48" x 24" x 20.4 #		
29	1	Portable Plt. - Starb'd	" "		48" x 24" x 20.4 #		
30	1	Fairwater Plt	" "		66" x 16" x 20.4 #		
31	1	Fairwater Top Plt	" "		22" x 20" x 20.4 #		
32	2	Fairwater Plt Stiff'n'r	" "		3" x 3" x 9.4 # Ang 13" Lg		
33	2	Doubling Plate	" "		9" x 9" x 20.4 # Plt.		

Alterations

No	Description	Date	Made By

General Notes

1- Rudder To Comply With Lloyd's Register Of Shipping & American Bureau Of Shipping Requirements & Test
2- Rudder Frame To Be Thoroughly Annealed
3- Rudder To Be Caulked W.T. & Tested With 6 Ft. Head Of Water
4- Mold Loft To Furnish Pattern Shop With All Necessary Templates
5- Interior Surfaces Of Rudder To Be Coated With Oxidized Asphalt By Filling & Draining After Testing
6- Area Of Rudder From ℄ Of Pintles To Back Edge = 165 Sq Ft
7- Area Of Rudder From ℄ Of Pintles To Leading Edge = 47 Sq Ft
8- Center Of Area - 2.89 Ft. Aft Of ℄ Of Pintles
9- Speed (Contract) 13 Knots

S.S. "Mobilube"
Balt. Rept. No. 6825

17

The electric welding must be done with an approved electrode, and the requirements of the Society's RULES FOR THE APPLICATION OF ELECTRIC ARC WELDING FOR SHIP CONSTRUCTION must be carried out.

APPROVED
MAY 19 1938
LLOYD'S REGISTER OF SHIPPING
NEW YORK
Surveyors Copy

Owners, Am. Bureau, Lloyds, Bu. of M. Insp., Inspectors, Hull Draft'g, Eng. Draft'g, Struct, Mold Loft, Ship Repair, Carpenter, Pattern, Machine, Smith, Boiler, Sheet Metal, Electric, Paint, Pipe, Mat'l. Exp.

Duplicate For H-4333 - Charge ED-4333

Charge-ED-4332 Job. No 121

H-4332-12-2 (54)

BETHLEHEM SHIPBUILDING CORP., LTD.
SPARROWS POINT, MD.

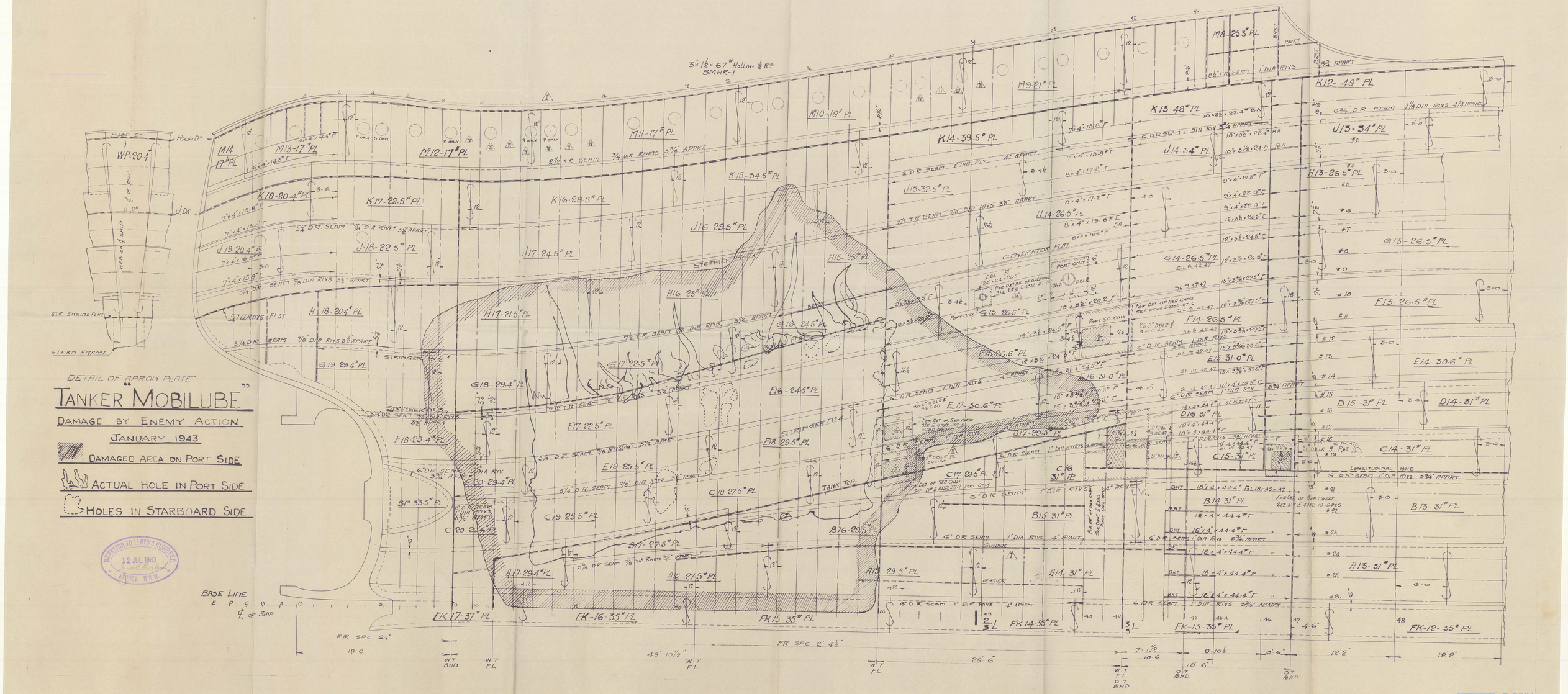
RUDDER

SCALE 1/2" = 1'-0" & As Noted DATE May-13-1938
DRAWN - R.A. Stewart APPROVED
TRACED APPROVED
CHECKED APPROVED

GROUP 2

011823-011825-205

Lloyd's Register Foundation



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